Lab 2

LangGraph Workbench

Instructions:

- 1. Complete the tasks and steps listed under the Requirements section below.
- 2. Participate in the Lab Discussions on Canvas

Requirements:

- 1. Install Python 3.10 from this URL:
 - https://www.python.org/downloads/release/python-3100/
- 2. Install VS Code from this URL:
 - https://code.visualstudio.com/download
- 3. Check python versions installed on your computer and verify that you have Python 3.10 installed by executing from the terminal/window the command:
 - py –list
- 4. Create python 3.10 virtual environment by executing the following commands from the terminal/window:
 - py -3.10 -m pip install virtualenv
 - py -3.10 -m virtualenv venv-langgraph
 - venv-langgraph\Scripts\activate
- 5. We are using LangGraph in this Lab
 - https://langchain-ai.github.io/langgraph/
- 6. From venv terminal/window, execute the following commands to install langgraph:
 - pip install uv
 - uv pip install -U langgraph

- 7. Use your personal email account to create a login and API KEY for OpenAI gtp-3.5-turbo from this URL:
 - https://platform.openai.com/api-keys
- 8. Use your personal email account to create a login and API KEY for Tavily from this URL:
 - https://app.tavily.com/home
- 9. Set up your environment variables for OpenAl Key and Tavily
 - set OPENAI_API_KEY=ADD_YOUR_OPENAI_API_KEY_HERE
 - set TAVILY API KEY=ADD YOUR OPENAL API KEY HERE
- 10. Use your school email or gmail account and enroll in LangGraph course for free
 - https://learn.deeplearning.ai/courses/ai-agents-inlanggraph/lesson/1/introduction
 - Complete the entire set of videos for LangGraph
 - Run Lesson 6 on your personal development computer: https://learn.deeplearning.ai/courses/ai-agents-in-langgraph/lesson/7/essay-writer